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TS

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/116,426 07/15/98 SURESH

S INFO.P005

LM02/0613

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TWO NORTH MARKET STREET  
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EXAMINER

DO,T

ART UNIT

PAPER NUMBER

2771

DATE MAILED: 06/13/00

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

# Office Action Summary

Application No.

09/116,426

Applicant(s)

Sankaran Suresh

Examiner

Thuy Do

Group Art Unit

2771



☒ Responsive to communication(s) filed on Jul 15, 1998

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claim

☒ Claim(s) 1-22 is/are pending in the application.  
Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1-22 is/are rejected.

☐ Claim(s) \_\_\_\_\_ is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☒ None of the CERTIFIED copies of the priority documents have been  
☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

— SEE OFFICE ACTION ON THE FOLLOWING PAGES —

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## DETAILED ACTION

### *Drawings*

1. This application has been filed with informal drawings which are acceptable for examination purposes only. Formal drawings will be required when the application is allowed.

### *Claim Rejections - 35 U.S.C. § 102*

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

2. Claims 1-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Young et al, U.S Patent Number 5,781,911, 07/14/1998, filed 09/10/1996, entitled "Integrated system and method of data warehousing and delivery".

With respect to independent claim 1, Young et al discloses a computer implemented method for transforming data in a data warehousing application, comprising the steps of:

specifying at least one source containing data (see Fig. 1).

constructing a plurality of transforming components for manipulating data according to pre-determines sets of rules (see Fig. 2).

coupling the transformation components to form one or more pipelines (see col. 3 in particular lines 34-46 and Fig . 3 which shows the transformation of data from data source to the data warehouse).

specifying a target for storing data generated by one or more of the pipelines (see Fig. 2).

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With respect to dependent claim 2, Young et al discloses the computer implemented method of further comprising the step of staging data in one of the plurality of transformation components (see Fig. 1).

With respect to dependent claim 3, Young et al discloses the computer implemented method of further comprising the step of streaming data in one of the plurality of transformation components (see Fig. 1).

With respect to dependent claim 4, Young et al discloses the computer implemented method of wherein the staging and streaming of data are performed automatically by software without human intervention (see Fig. 1 and col. 1 in particular lines 55-67).

With respect to dependent claims 5 and 16, Young et al discloses the computer implemented method of wherein a source transformation component, a target transformation component, an aggregation transformation component, a rank transformation component, and a joiner transformation component perform the staging step (see col. 25 in particular 25 and Fig. 2).

With respect to dependent claims 6 and 17, Young et al discloses the computer implemented method of wherein an expression transformation component, a filter transformation component, an update strategy transformation component, a sequence transformation component, a lookup transformation component, a stored procedure transformation component, an external procedure transformation component, and a normalizer transformation component perform the streaming step (see Fig. 2).

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With respect to dependent claims 7 and 18, Young et al discloses the computer implemented method of further comprising the step of pushing data from a first transformation component to a second transformation component (see col. 2 in particular lines 1-10 and Fig. 1).

With respect to dependent claims 8 and 19, Young et al discloses the computer implemented method of further comprising the step of pulling data from a first transformation component to a second transformation component (see col. 2 in particular lines 1-10 and Fig. 1).

With respect to dependent claims 9 and 20 and , Young et al discloses the computer implemented method of further comprising the step of pushing data from a third transformation component to a fourth transformation component (see Fig. 4a and col. 6 in particular lines 5-20).

With respect to dependent claims 10 and 21, Young et al discloses the computer implemented method of further comprising the step of a first transformation component pulling data from a second transformation component and pushing data to a third transformation component ( see Fig. 4a and col. 6 in particular lines 5-20).

With respect to dependent claims 11 and 22, Young et al discloses the computer implemented method of further comprising the step of executing a plurality of tasks in parallel through a plurality of the pipelines (see Fig. 2).

With respect to independent claim 12, Young et al discloses a computer-readable medium having stored thereon instructions for causing a computer to transform data in a datamart application, comprising:

a source containing original data (see Fig. 1 ).

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a plurality of transformation components for manipulating data according to pre-determines behaviors (see Fig. 2).

a mapping which specifies an order for coupling the transformation components to form one or more pipelines (see Fig. 2).

a target for storing data generated by one or more of the pipelines (see Fig. 2 and starting col. 10 in particular lines 66-67 to col. 11 in particular lines 1-19).

With respect to dependent claim 13, Young et al discloses the computer-readable medium of further comprising a memory for staging data generated by one of the plurality of transformation components (see Fig. 2).

With respect to dependent claim 14, Young et al discloses the compute-readable medium of wherein one of the plurality of transformation components stream data to another a subsequent one of the plurality of transformation components (see Fig. 2 and col. 5 in particular lines 5-22).

With respect to dependent claim 15, Young et al discloses the computer readable medium of further including instructions for automatically staging or streaming of data by each of the plurality of transformation components (see Fig. 2 and on the abstract).

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*Conclusion*

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

5,563,999 Yaksich et al 10/08/1996 395/149

Forms automatic system.

6,044,374 Nesamoney et al 11/14/1997 707/10

Method and apparatus for sharing metadata between multiple data marts through object references.

5,430,147 Tanaka 06/25/1992 414/786

Method for warehousing and delivery of article.

6,032,158 Mukhopadhyay et al 05/02/1997 707/201

Apparatus and method for capturing and propagating changes from an operational database to data marts.

6,014,670 Zamanian et al 11/07/1997 707/101

Apparatus and method for performing data transformations in data warehousing.

5,675,785 Hall et al 10/04/1994 395/613

Data warehouse which is accessed by a user using a schema of virtual tables.

Serial Number: 09116426

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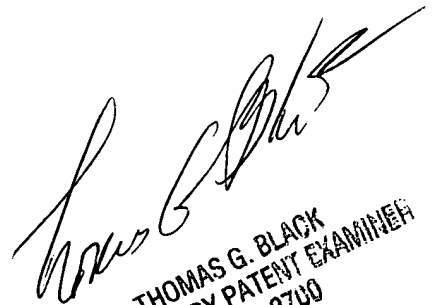
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3. Any inquiry concerning this communication or earlier communication from the examiner should be direct to Thuy Do whose telephone number is (703)-306-5574. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703)-305-9600.



Thuy Do

Jun 26 2000



THOMAS G. BLACK  
SUPERVISORY PATENT EXAMINER  
GROUP 2700